

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4713286	well	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:40
S2	54344	logging	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S3	49402	borehole	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S4	154083	ANN	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S5	3794	artificial near2 neural near2 network	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S6	8573	chirp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S7	14909	Oklahoma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S8	1241	dip adj angle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:09
S9	1	S1 and S2 and S3 and S4 and S5 and S6 and S7 and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:10

## EAST Search History

S10	9	(("5444619") or ("5862513") or ("5300770") or ("5345077") or ("6044325") or ("5828981") or ("5251286") or ("5883515") or ("6219619")). PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/03/10 10:11
S11	9	S10 and (S1 or S2 or S3 or S4 or S5 or S6 or S7 or S8)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:36
S12	0	S10 and chirp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:36
S13	4	S10 and neur\$2 not S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:46
S14	111	Oklahoma with formation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:49
S15	30	chirp with formation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:49
S16	62371	borehole or wellbore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:48
S17	80968	(S16 or S1) with log\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:49
S18	259	Oklahoma with (formation or model)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:49

## EAST Search History

S19	132	chirp with (formation or model)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:50
S20	477	neur\$2 same S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:52
S21	1	S18 same S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:50
S22	1	S19 same S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:50
S23	1	S20 and (S18 or S19)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:50
S24	2	neur\$2 same (S18 or S19)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:51
S25	5	S17 same S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:55
S26	1	S17 same S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 10:52
S27	28	S17 same chirp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 11:00

## EAST Search History

S28	21	formation with model with realistic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 12:27
S29	121	706/928-929,22.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 12:30
S30	9	S20 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 12:30
S31	1101	702/6-7,9,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 12:41
S32	17	S20 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 12:41
S33	14	S32 not S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/10 14:07
S34	18	(US-5251286-\$ or US-5184079-\$ or US-5008845-\$ or US-5300770-\$ or US-6044325-\$ or US-6219619-\$ or US-5862513-\$ or US-5345077-\$ or US-5444619-\$ or US-5883515-\$ or US-5828981-\$ or US-5684693-\$ or US-5536938-\$ or US-6789620-\$ or US-5940777-\$ or US-6381542-\$ or US-6374185-\$).did. or (US-3311875-\$).did.	USPAT; USOCR	OR	ON	2006/03/13 13:57
S35	5	S34 and (Oklahoma or chirp)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 14:12
S36	4	S35 and (parameter or contrast or layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 14:23

## EAST Search History

S37	12	S34 and earth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 14:23
S38	8	S37 and synth\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 14:23
S39	18	(US-5251286-\$ or US-5184079-\$ or US-5008845-\$ or US-5300770-\$ or US-6044325-\$ or US-6219619-\$ or US-5862513-\$ or US-5345077-\$ or US-5444619-\$ or US-5883515-\$ or US-5828981-\$ or US-5684693-\$ or US-5536938-\$ or US-6789620-\$ or US-5940777-\$ or US-6381542-\$ or US-6374185-\$).did. or (US-3311875-\$).did.	USPAT; USOCR	OR	ON	2006/03/13 15:14
S40	6	chirp same layer same contrast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:15
S41	11	Oklahoma same layer same contrast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:15
S42	1	S40 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:15
S43	16	S40 or S41 not S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:15
S44	1101	702/6-7,9,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:18
S45	6	S44 and chirp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:23

## EAST Search History

S46	48	S44 and Oklahoma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:18
S47	3	S45 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:37
S48	3	S45 not S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:38
S49	45	S46 not S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/13 15:38
S50	22	(US-6789620-\$ or US-6381542-\$ or US-6374185-\$ or US-6219619-\$ or US-6044325-\$ or US-5828981-\$ or US-5940777-\$ or US-5883515-\$ or US-5862513-\$ or US-5345077-\$ or US-5684693-\$ or US-5536938-\$ or US-5444619-\$ or US-5300770-\$ or US-5251286-\$ or US-5184079-\$ or US-5008845-\$ or US-5867806-\$ or US-5210691-\$ or US-6606565-\$ or US-6304086-\$).did. or (US-3311875-\$).did.	USPAT; USOCR	OR	ON	2006/03/13 18:25
S51	19	S50 and (depth or deep)	USPAT; USOCR	OR	ON	2006/03/13 18:25
S52	17	S50 and (averag\$3 or mean or combin\$3)	USPAT; USOCR	OR	ON	2006/03/13 18:26
S53	17	S51 and S52	USPAT; USOCR	OR	ON	2006/03/13 18:26
S54	11	S50 and ((averag\$3 or mean or combin\$3) same (deep or depth))	USPAT; USOCR	OR	ON	2006/03/13 19:00
S55	13	S50 and neur\$3	USPAT; USOCR	OR	ON	2006/03/13 19:01
S56	21	(US-6219619-\$ or US-5862513-\$ or US-6044325-\$ or US-5883515-\$ or US-5828981-\$ or US-5444619-\$ or US-5251286-\$ or US-5345077-\$ or US-5300770-\$ or US-6374185-\$ or US-5867806-\$ or US-5184079-\$ or US-5684693-\$ or US-5008845-\$ or US-5940777-\$ or US-5536938-\$ or US-6381542-\$ or US-6606565-\$ or US-6304086-\$ or US-5210691-\$).did. or (US-3311875-\$).did.	USPAT; USOCR	OR	ON	2006/03/14 09:42

## EAST Search History

S57	2	S56 and ((realistic or sensitivity or resolution) with (limit or range))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 11:11
S58	13	S56 and (realistic or sensitivity or resolution)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 09:57
S59	20	S56 and (limit or range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 11:11
S60	1	S56 and ((realistic or sensitivity or resolution) with (bound))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 11:11
S61	20	S56 and (limit or range or bound)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 11:14
S62	21	S56 and (limit\$4 or rang\$4 or bound\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 11:15
S63	11	S56 and ((limit\$4 or rang\$4 or bound\$4) same (real\$7 or resol\$6 or sensit\$7))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 11:53
S64	21	S56 and (limit\$4 or rang\$4 or bound\$4 or real\$7 or resol\$6 or sensit\$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:01
S65	19	S56 and (deep or depth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:05

## EAST Search History

S66	2	"5862513".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:05
S67	0	S66 and S65 and input and output and sample	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:06
S68	1	S66 and S65 and (input or output or sample)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:07
S69	1	S68 and (log\$4 or tool)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:43
S70	0	S69 and average	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:13
S71	19	S56 and generat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:43
S72	17	S56 and (generat\$5 with (formation or model))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:44
S73	13	S56 and synth\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 12:44
S74	11	S72 and S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 14:55

## EAST Search History

S75	20	S56 and (combin\$5 or composite or averag\$5 or sum\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 14:56
S76	14	S56 and ((combin\$5 or composite or averag\$5 or sum\$5) same log\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 15:27
S77	216868	(combin\$5 or composite or averag\$5 or sum\$4) same log\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:02
S78	649	((combin\$5 with log\$4) or (((averag\$5 or sum\$4) with output) same log\$4)) same (composite with log\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 15:29
S79	31199	earth with (parameter or formation or model)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 15:30
S80	17	S78 and S79	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 15:30
S81	24	(US-6219619-\$ or US-5862513-\$ or US-6044325-\$ or US-5883515-\$ or US-5828981-\$ or US-5444619-\$ or US-5251286-\$ or US-5345077-\$ or US-5300770-\$ or US-6374185-\$ or US-5867806-\$ or US-5184079-\$ or US-5684693-\$ or US-5008845-\$ or US-5940777-\$ or US-5536938-\$ or US-6381542-\$ or US-6606565-\$ or US-6304086-\$ or US-5210691-\$ or US-3954006-\$ or US-3784828-\$).did. or (US-3311875-\$ or US-2836359-\$).did.	USPAT; USOCR	OR	ON	2006/03/14 16:16
S82	7	S81 and (transmit\$5 same receiv\$4 same pair)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:37

## EAST Search History

S83	12	S81 and transmit\$5 and receiv\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:17
S84	123266	transmit\$5 same receiv\$4 same pair	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:37
S85	289	log\$4 same synthetic same response	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:38
S86	4	S84 same S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:38
S87	138046	log\$4 same response	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:38
S88	1199	S84 same S87	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:38
S89	10	S88 and neur\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 16:39
S90	0	"each depth point"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:00
S91	0	each with depth with point with (borehole or wellbore)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:00

## EAST Search History

S92	1	each with depth with point	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:00
S93	233	each with (depth or point)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:01
S94	62401	borehole or wellbore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:01
S95	1	S93 same S94	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:01
S96	216868	(combin\$5 or composite or averag\$5 or sum\$4) same log\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:02
S97	32161	S96 same (deep or depth or point)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:06
S98	1976	S97 and S94	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:03
S99	1190	S97 same S94	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:26
S100	17	S99 and neur\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:06

## EAST Search History

S10 1	310	S99 same (deep or depth) same point	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 17:06
S10 2	5	S100 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:06
S10 3	57898	in\$1phase or (in adj phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:06
S10 4	81181	quadrature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:06
S10 5	24	(US-6606565-\$ or US-6381542-\$ or US-6374185-\$ or US-6219619-\$ or US-6304086-\$ or US-6044325-\$ or US-5883515-\$ or US-5940777-\$ or US-5867806-\$ or US-5862513-\$ or US-5828981-\$ or US-5684693-\$ or US-5536938-\$ or US-5345077-\$ or US-5444619-\$ or US-5300770-\$ or US-5210691-\$ or US-5251286-\$ or US-5184079-\$ or US-5008845-\$ or US-3954006-\$ or US-3784828-\$).did. or (US-3311875-\$ or US-2836359-\$).did.	USPAT; USOCR	OR	ON	2006/03/14 18:10
S10 6	4	S105 and S104 and S103	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:13
S10 7	4	S106 and induction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:12
S10 8	3	S105 and (S103 same S104 same induction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:24

## EAST Search History

S10 9	11	S105 and induction	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:28
S11 0	5	S99 and S105	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/14 18:26
S11 1	259	Oklahoma with (formation or model)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:56
S11 2	132	chirp with (formation or model)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:56
S11 3	2	S112 same (layer with thick\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:00
S11 4	1	S112 same (parameter with contrast)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:00
S11 5	1	S112 same (tool with range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:58
S11 6	2	S113 or S114 or S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:59
S11 7	1	S111 same (layer with thick\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:57

## EAST Search History

S11 8	1	S111 same (parameter with contrast)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:58
S11 9	1	S111 same (tool with range)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:00
S12 0	1	S117 or S118 or S119	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:59
S12 1	2	S116 or S120	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 11:58
S12 2	757624	layer with thick\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:00
S12 3	9261	parameter with contrast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:00
S12 4	29886	tool with range	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:00
S12 5	1	S122 same S123 same S124	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:01
S12 6	21	S122 and S123 and S124	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:03

## EAST Search History

S12 7	53	contrast same layer same realistic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:08
S12 8	1155	702/6-7,9-11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:04
S12 9	818	367/81-83,86,69.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:05
S13 0	240	703/10.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:05
S13 1	0	S127 and (S128 or S129 or S130)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:05
S13 2	23	S111 and (S128 or S129 or S130)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:08
S13 3	1	S112 and (S128 or S129 or S130)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:36
S13 4	16967	ma.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:36
S13 5	2	S134 and (S128 or S129 or S130)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:37

## EAST Search History

S13 6	59	ferris-fred.xp. or ferris-fred.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:44
S13 7	231	jones-hugh.xp. or jones-hugh.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:44
S13 8	1	(S136 or S137) and drill and simulator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:48
S13 9	1411	ferris.xp. or ferris.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:44
S14 0	21130	jones.xp. or jones.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:44
S14 1	2	(S139 or S140) and drill and simulator	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:44
S14 2	58	(S139 or S140) and drill\$5 and simulat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:48
S14 3	3	S142 and ma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:45
S14 4	23	(S136 or S137) and ma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:45

## EAST Search History

S14 5	0	(S136 or S137) and S134	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 12:48
S14 6	17	(S139 or S140) and S134	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 13:06
S14 7	2	"5867806".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 13:06
S14 8	1	S147 and Oklahoma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 13:06
S14 9	1	S147 and chirp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 14:00
S15 0	88	(induction with logging) same sensitivity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 14:02
S15 1	2	(induction with logging) same (sensitivity with minimum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 14:01
S15 2	1	S150 same chirp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 14:02

## EAST Search History

S15 3	24	(US-6219619-\$ or US-6044325-\$ or US-5883515-\$ or US-5828981-\$ or US-5862513-\$ or US-5300770-\$ or US-5444619-\$ or US-5345077-\$ or US-5251286-\$ or US-5184079-\$ or US-5008845-\$ or US-6606565-\$ or US-3954006-\$ or US-3784828-\$ or US-5684693-\$ or US-5536938-\$ or US-5940777-\$ or US-6381542-\$ or US-6374185-\$ or US-5867806-\$ or US-6304086-\$ or US-5210691-\$).did. or (US-2836359-\$ or US-3311875-\$).did.	USPAT; USOCR	OR	ON	2006/03/15 15:02
S15 4	2	S153 and ("10:1" or "100:1" or "10,000:1" or "10000:1")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:22
S15 5	3	S153 and (contrast with("1" or "10" or "100" or "10000" or "10,000"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:17
S15 6	100791	"10:1" or "100:1" or "10,000:1" or "10000:1"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:23
S15 7	0	"10 to 1" or "100 to 1" or "10,000 to 1" or "10000 to 1"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:22
S15 8	99938	"10:1" or "100:1" or ((("10" or "100") adj to adj "1")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:25
S15 9	2158	"10000:1" or "10,000:1" or ((("10,000" or "10000") adj to adj "1")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:24
S16 0	1961	("10:1" or "100:1" or ((("10" or "100") adj to adj "1")) same contrast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:26

## EAST Search History

S16 1	2149	S128 or S129 or S130	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:27
S16 2	4	S160 and S161	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:30
S16 3	23	S159 same sensitivity	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:30
S16 4	0	S159 same sensitivity52 and S163	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/03/15 15:30
S16 5	2	"5862513".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:16
S16 6	64547	borehole or wellbore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:17
S16 7	14671	S166 and (moving rolling)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:17
S16 8	319	S166 and ((moving rolling) with average)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:18
S16 9	21	S166 and ((moving rolling) with average with depth)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:18

## EAST Search History

S17 0	17	S169 and (@pd<"20001219" @ad<"20001219")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:58
S17 1	2	"3954006".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 18:58
S17 2	1	S171 and (combin\$4 same (depth interval))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 19:01
S17 3	1	S171 and (average mean)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 19:01
S17 4	121	706/928-929,22.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:28
S17 5	1167	702/6-7,9,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:29
S17 6	836	367/69,81-83,86.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:29
S17 7	279	703/10.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:29
S17 8	2322	S174 S175 S176 S177	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:29

## EAST Search History

S17 9	159	Oklahoma with model	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:30
S18 0	117	chirp with model	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:30
S18 1	1	S179 and S180	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:30
S18 2	272	Oklahoma with (model formation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:30
S18 3	147	chirp with (model formation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:30
S18 4	417	S182 S183	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:30
S18 5	2	S182 and S183	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:31
S18 6	30	(neur\$4 ANN) and S184	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:32
S18 7	2	(neur\$4 ANN) same S184	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:31

## EAST Search History

S18 8	279	166/254.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:43
S18 9	121	706/928-929,22.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:41
S19 0	1167	702/6-7,9,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:41
S19 1	836	367/69,81-83,86.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:41
S19 2	279	703/10.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:41
S19 3	2322	S189 S190 S191 S192	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:41
S19 4	242	507/100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:43
S19 5	2837	S188 S194 S193	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:44
S19 6	1792	(wellbore borehole) and S195	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:44

## EAST Search History

S19 7	272	Oklahoma with (model formation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:45
S19 8	147	chirp with (model formation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:45
S19 9	24	(S197 S198) and S195	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:45
S20 0	196	neur\$4 and S195	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:45
S20 1	0	S198 and S200	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:45
S20 2	12	S199 and (@pd<"20001219" @ad<"20001219")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/08/30 22:46